

FIG. 1

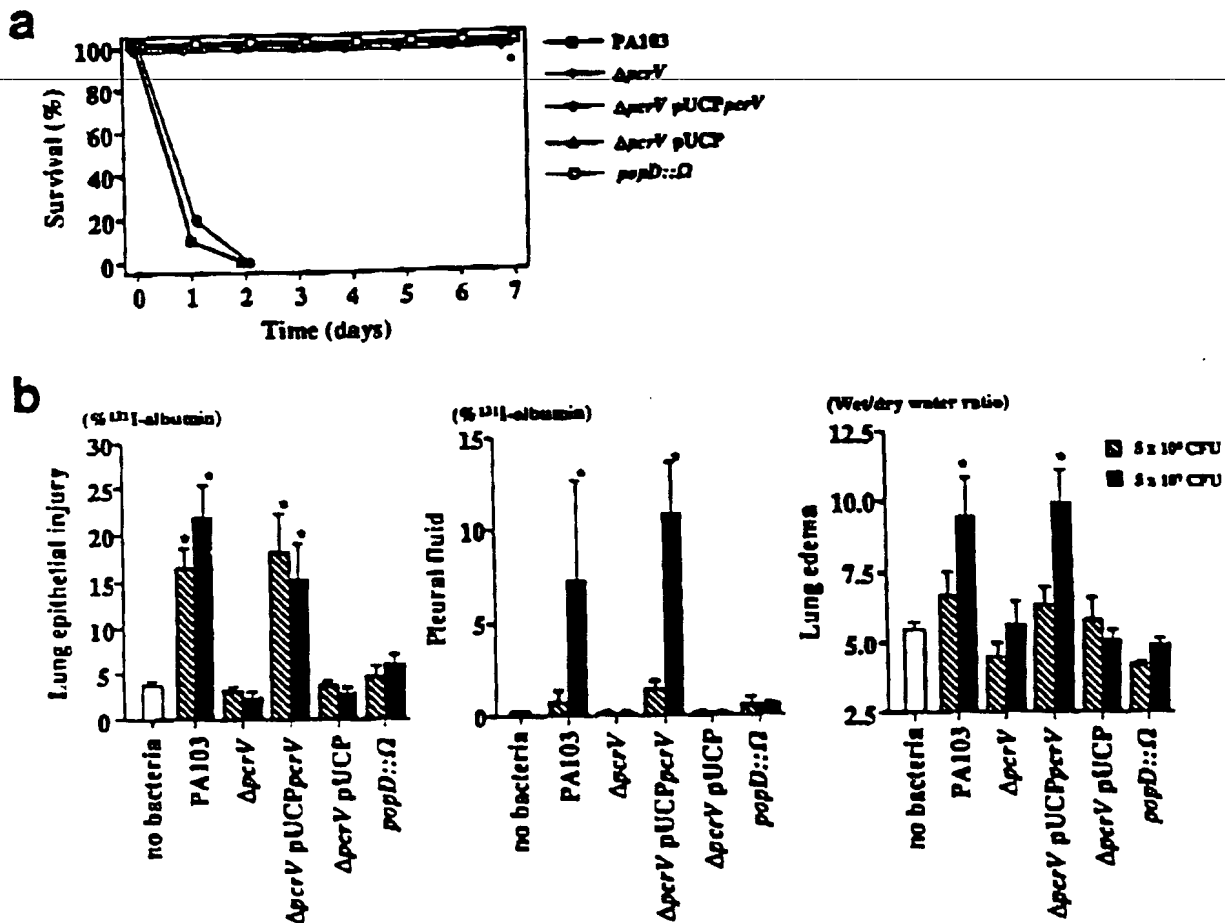
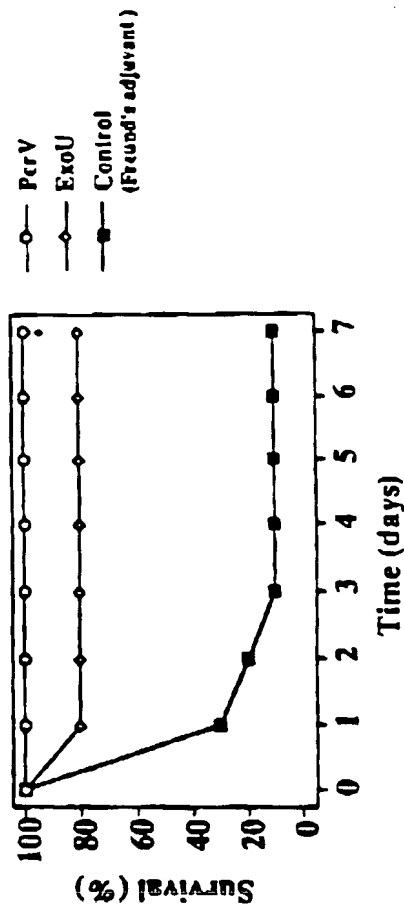


FIG. 2

a



b

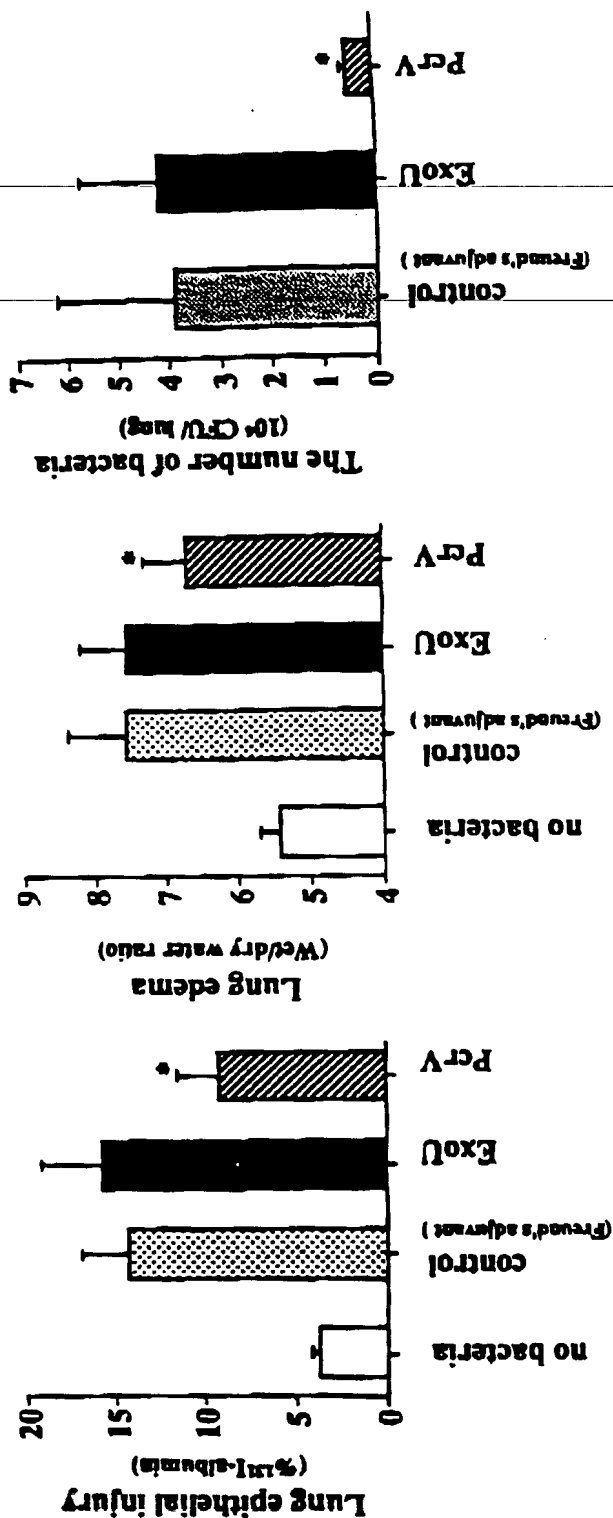


FIG. 3

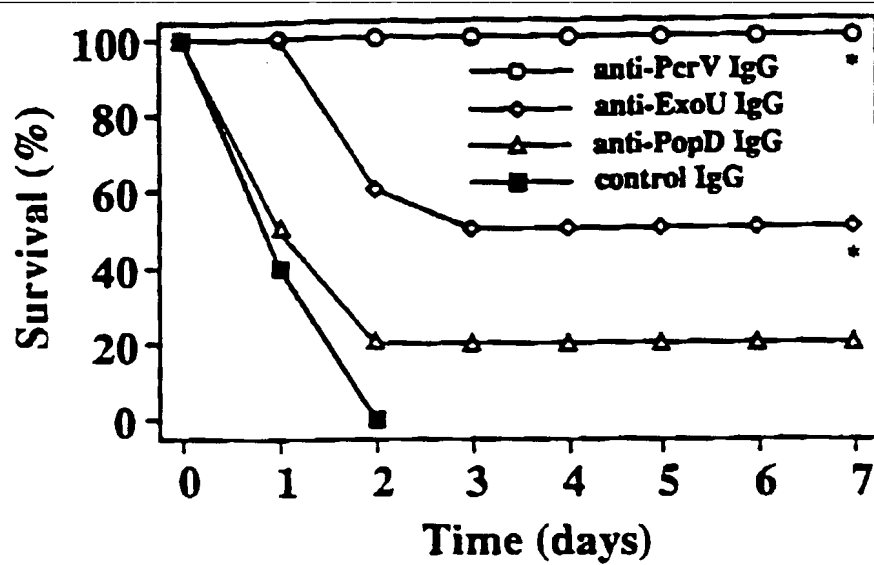
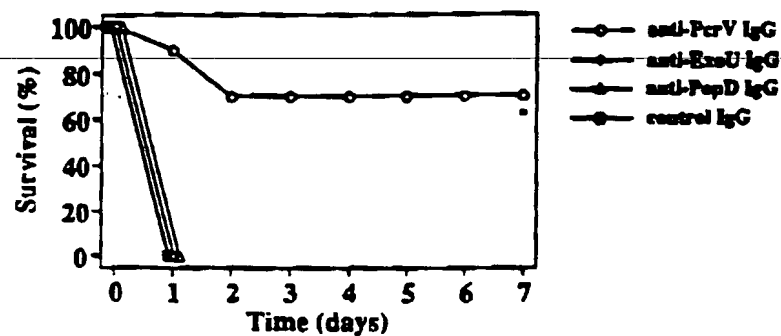


FIG. 4

a



b

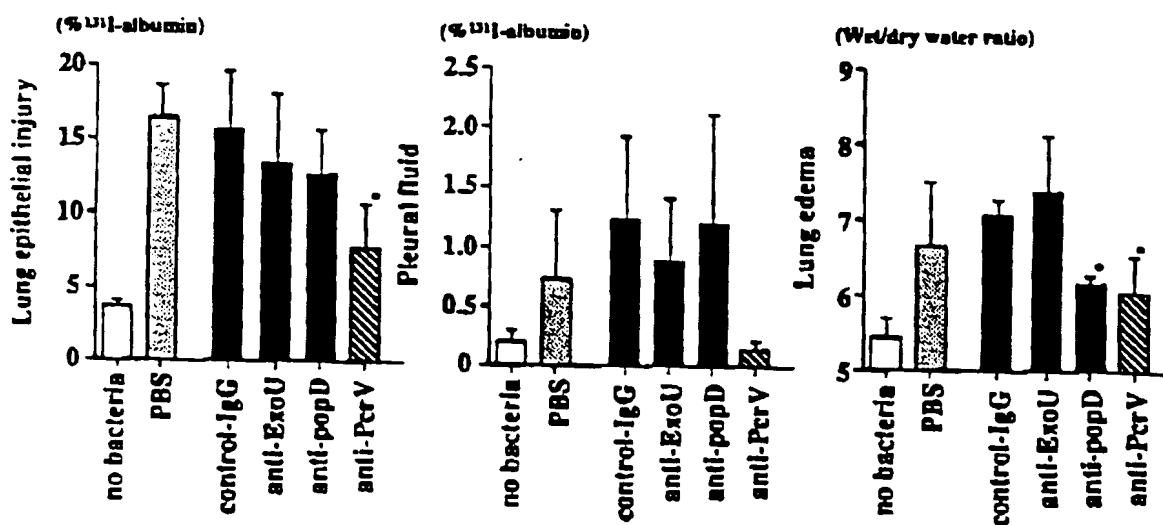


FIG. 5

## m166 heavy chain

### 1. m166 heavy chain (IgG2b) complete mRNA sequence:

(From the transcriptional start point to the polyA-tail)

```

.....
CCATCCTCTT CTCATAGAGC CTCCATCAGA GCATGGCTGT CTTGGGGCTG
CTCTTCTGCC TGGTGACATT CCCAAGCTGT GTCCTATCCC AGGTGCAGCT
GAAGCAGTCA GGACCTGGCC TAGTGCAGCC CTCACAGAGC CTGTCCATCA
CCTGCACAGT CTCTGGTTTC TCATTAACTA GCTATGGTGT ACACTGGGTT
CGTCAGTCTC CAGGAAAGGG TCTGGAGTGG CTGGGAGTGA TATGGAGTGG
TGGAGACACA GACTATAATG CAGCTTTCAT ATCCAGACTG AGCATCAGCA
AGGACAATTC CAAGAGCCAA CTCTTCTTTA AAATGAACAG TCTGCCAGCT
ACTGACACAG CCATATATTA CTGTGCCAGA AATAGAGGGG ATATTTACTA
TGATTTCACT TATGCCATGG ACTACTGGGG TCAAGGAACC TCAGTCACCG
TCTCCTCAGC CAAAACAACA CCCCATCAG TCTATCCACT GGCCCTGGG
TGTGGAGATA CAACTGGTTC CTCCGTGACT CTGGGATGCC TGGTCAAGGG
CTACTTCCCT GAGTCAGTGA CTGTGACTTG GAACTCTGGA TCCCTGTCCA
GCAGTGTGCA CACCTTCCCA GCTCTCCTGC AGTCTGGACT CTACACTATG
AGCAGCTCAG TGACTGTCCC CTCCAGCACC TGGCCAAGTC AGACCGTCAC
CTGCAGCGTT GCTCACCAG CCAGCAGCAC CACGGTGGAC AAAAAACTTG
AGCCCAGCGG GCCCATTTC ACAAATCAACC CCTGTCCTCC ATGCAAGGAG
TGTCACAAAT GCCCAGCTCC TAACCTCGAG GGTGGACCAT CCGTCTTCAT
CTTCCCTCCA AATATCAAGG ATGTACTCAT GATCTCCCTG ACACCCAGG
TCACGTGTGT GGTGGTGGAT GTGAGCGAGG ATGACCCAGA CGTCCAGATC
AGCTGGTTTG TGAACAACGT GGAAGTACAC ACAGCTCAGA CACAAACCCA
TAGAGAGGAT TACAACAGTA CTATCCGGGT GGTCCAGCAC CTCCCCATCC
AGCACCAGGA CTGGATGAGT GGCAAGGAGT TCAAATGCAA GGTCAACAAC
AAAGACCTCC CATCACCCTAT CGAGAGAACC ATCTCAAAAA TTAAAGGGCT
AGTCAGAGCT CCACAAGTAT ACATCTTGCC GCCACCAGCA GAGCAGTTGT
CCAGGAAAGA TGTAGTCTC ACTTGCCTGG TCGTGGGCTT CAACCCTGGA
GACATCAGTG TGGAGTGGAC CAGCAATGGG CATAAGAGG AGAACTACAA
GGACACCGCA CCAGTCTTGG ACTCTGACGG TTCTTACTTC ATATATAGCA
AGCTCAATAT GAAAACAAGC AAGTGGGAGA AAACAGATTG CTTCTCATGC
AACGTGAGAC ACGAGGTCTT GAAAAATTAC TACCTGAAGA AGACCATCTC
CCGGTCTCCG GGTAAATGAG CTCAGCACCC ACAAGGCTCT CAGGTCTTAA
GAGACACTGG CACCCATATC CATGCATCCC TTGTATAAAT AAAGCATCCA
GCAAAGCCTG GTACCATGTA AAAAAAAAAA AAAAAAAAAA
.....

```

FIG. 6A

## 2. m166 heavy chain (IgG2b) complete amino acid sequence:

(From the start codon to the stop codon)

MAVLGLLFL VTFPSCVLSQ VOLKQSGPGL VQPSQSLST CTVSGFSLTS  
YGVHWVROSP GKGLEWLGVI WSGGDTDYNA AFISRLSISK DNSKSQLEFFK  
MNSLRATDTA IYYCARNRGD IYYDFTYAMD YWGQTSVTV SSAKTTPPSV  
YPLAPGCGDT TGSSVTLGCL VKGYFPESVT VTWNSGSLSS SVHTFPALLO  
SGLYTMSSSV TVPSSWPSQ TVTCSVAHPA SSTTVDKKLE PSGFISTINP  
CPPCKECHKC PAPNLEGGPS VFIFPPNIKD VLMISLTPKV TCVVVDVSED  
DPDVQISWV NNVEVHTAQT QTHREDYNST IRVNSTLPIQ HQDWMSGKEF  
KCKVNNKDLPI SPIERTISKI KGLVRAPQVY ILPPPAEQLS RKDVSLTCLV  
VGFNPGDISV EWTNNGHTEE NYKDTAPVLD SDGSYFIYSK LNMKTSKWEK  
TDSFSCNVRH EGLKNYYLKK TISRSPGK[STOP]

[Sig-pep] MAVLGLLFLVTFPSCVLS

[VH-region]

FR1: QVOLKQSGPGLVQPSQSLSTCTVSGFSLT  
CDR1: SYGVH  
FR2: WVROSPGKLEWLG  
CDR2: VIWSGGDTDYNAAFIS  
FR3: RLSISKDNSKSQLEFFKMNSLRATDTAIYYCAR  
CDR3: NRGDIYYDFTYAMDY  
FR4: WGQTSVTVSS

[CH-region]

CH:  
AKTTPPSVYP LAPGCGDTTG SSVTLGCLVK GYFPESVTVT WNSGSLSSSV  
HTFPALLOSG LYTMSSSVTV PSSTWPSQTV TCSVAHPASS TTVDKKLEPS  
GPISTINPCP PCKECHKCPA PNLEGGPSVF IFPPNIKDVL MISLTPKVTC  
VVVDVSEDDP DVQISWVNN VEVHTAQTQT HREDYNSTIR VVSTLPIQHQ  
DWMSGKEFKC KVNNDLPSP IERTISKIKG LVRAPQVYIL PPPAEQLSRK  
DVSLTCLVVG FNPGDISEV TSNGHTEENY KDTAPVLDSD GSYFIYSKLN  
MKTSKWEKTD SFSCNVRHEG LKNYYLKKTI SRSPGK[STOP]

FIG. 6B

FIG. 6B

## m166 light chain

### 1. m166 light chain (k) complete mRNA sequence:

(From the transcriptional start point to the polyA tail)

```

.....
ACACCCCTTG CTGGAGTCAG AATCACA CTG ATCACACACA GTCATGAGTG
TGCTCACTCA GGTCTGGCG TTGCTGCTGC TGTGGCTTAC AGGTGCCAGA
TGTGACATCC AGATGACTCA GTCCTCAGCC TCCCTATCTG CATCTGTGGG
AGAAACTGTC ACCATCACAT GTCGAGCAAG TGGGAATATT CAAAATTATT
TAGCATGGTA TCAGCAGACA CAGGGAAAAT CTCCTCAGCT CCTGGTCTAT
TCTGCAAAAA CCTTAGCAGA TGGTGTGCCA TCAAGGTTCA GTGGCAGTGG
ATCAGGAACA CAATATTCTC TCAAGATCAA CAGCCTGCAG CCTGAAGATT
TTGGGAGTTA TTAGTGTCAT CATTTTTGGG GTACTCCGTA CACGTTCCGA
GGGGGGACCA AGCTGGAAAT AAAACGGGCT GATGCTGCAC CAACTGTATC
CATCTTCCCA CCATCCAGTG AGCAGTTAAC ATCTGGAGGT GCCTCAGTCG
TGTGCTTCTT GAACAACCTC TACCCCAAAG ACATCAATGT CAAGTGAAG
ATTGATGGCA GTGAACGACA AAATGGCGTC CTGAACAGTT GGACTGATCA
GGACAGCAAA GACAGCACCT ACAGCATGAG CAGCACCTC ACGTTGACCA
AGGACGAGTA TGAACGACAT AACAGCTATA CCTGTGAGGC CACTCACAAG
ACATCAACTT CACCCATTGT CAAGAGCTTC AACAGGAATG AGTGTTAGAG
ACAAAGGTCC TGAGACGCCA CCACCAGCTC CCCAGCTCCA TCCTATCTTC
CCTTCTAAGG TCTTGGAGGC TTCCCCACAA GCGACCTACC ACTGTTGCGG
TGCTCCAAAC CTCCTCCCA CCTCCTTCTC CTCCTCTCC CTTTCTTGG
CTTTTATCAT GCTAATATT GCAGAAAATA TTCAATAAAG TGAGTCTTTG
CAAAAAAAAA AAAAAAAAA AAAAAAAAA
.....

```

### 2. m166 light chain (k) amino acid complete sequence:

(From the start codon to the stop codon)

```

.....
MSVLTVLAL LLLWLTGARC DIQMTQSPAS LSASVGETVT ITCRASGNIO
NYLAWYQQTQ GKSPQLLVYS AKTLADGVPS RFGSGSGTGQ YSLKINSLOP
EDFGSYQCQ FWSTPYTFGG GTKLEIKRAD AAPTVSIFPP SSEQLTSGGA
SVVCFLNNFY PKDINVKKKI DGSERQNGVL NSWTDQDSKD STYSMSSTLT
LTKDEYERHN SYTCEATHKT STSPIVKSFN RNEC (STOP)
.....

```

[Sig-pep] MSVLTVLALLLLWLTGARC

[VL-region]

FR1: DIQMTQSPASLSASVGETVTITC

CDR1: RASGNIQNYLA

FR2: WYQQTQKSPQLLVY

CDR2: SAKTLAD

FR3: GVPSRFGSGSGTGQYSLKINSLOPEDFGSYQC

CDR3: QHFWSTPYT

FR4: FGGGTKLEIKR

[CL-region]

CL: ADAAPTVSIFPPSSEQLTSGGASVVCFLNNFYPKDINVKKIDGSERQNGVL  
NSWTDQDSKSTYSMSSTLT LTKDEYERHNSYTCEATHKTSTSPIVKSFN RNEC (STOP)

FIG. 7